

L2 S. SEPARATE (10A) METAL MESH

=> d 12 1-14

(X)

1. 5,589,662, Dec. 31, 1996, Pyrotechnic mixture and gas generator for an airbag; Ulrich Schleicher, et al., 149/35, 36; 264/3.4 [IMAGE AVAILABLE]

2. 5,585,048, Dec. 17, 1996, Pyrotechnic mixture and gas generator for an airbag; Ulrich Schleicher, et al., 264/3.4; 149/109.6 [IMAGE AVAILABLE]

3. 5,562,303, Oct. 8, 1996, Pyrotechnic mixture and gas generator for an airbag; Ulrich Schleicher, et al., 280/736; 102/530 [IMAGE AVAILABLE]

X 4. 5,532,087, Jul. 2, 1996, Electrochemical cell; John E. Nerz, et al., 429/248, 229 [IMAGE AVAILABLE]

5. 5,527,405, Jun. 18, 1996, Pyrotechnic mixture and gas generator for an airbag; Ulrich Schleicher, et al., 149/35, 110 [IMAGE AVAILABLE]

6. 5,130,100, Jul. 14, 1992, Exhaust gas cleaning device; Haruo Serizawa, 422/180; 55/385.3, 488, 489, 520, 525, DIG.30; 60/301, 322; 422/191, 193, 222; 423/213.2 [IMAGE AVAILABLE]

7. 4,769,593, Sep. 6, 1988, Method and apparatus for measurement of steam quality; Philip W. Reed, et al., 324/668; 73/29.01; 324/698; 374/42 [IMAGE AVAILABLE]

8. 4,567,121, Jan. 28, 1986, Insulating seal for electrochemical cells; Alexander Gilmour, 429/181; 29/623.2, 623.4; 429/185 [IMAGE AVAILABLE]

(X)

9. 4,396,688, Aug. 2, 1983, Electrochemical cells containing liquid sodium as the anodic material; Francis M. Stackpool, 429/104 [IMAGE AVAILABLE]

(X)

10. 4,209,394, Jun. 24, 1980, Magnetic separator having a multilayer matrix, method and apparatus; David R. Kelland, 210/695, 222, 332, 336 [IMAGE AVAILABLE]

11. 4,176,023, Nov. 27, 1979, Delsalinization and chemical extraction process; Donnie D. Childress, 205/516; 203/11; 205/536, 538 [IMAGE AVAILABLE]

12. 4,020,240, Apr. 26, 1977, Electrochemical cell with clovoborate salt in electrolyte and method of operation and composition of matter; Carl R. Schlaikjer, 429/50; 252/62.2; 423/197; 429/196, 199, 200 [IMAGE AVAILABLE]

13. 3,965,005, Jun. 22, 1976, Method and apparatus for evaporating and separating multiple component solutions or mixtures; Lawrence C. Boyd, Jr., et al., 210/96.1; 159/27.2, 31, 44; 202/200; 210/110, 182, 258, 774 [IMAGE AVAILABLE]

14. 3,614,038, Oct. 19, 1971, POROUS METAL PANEL TO DISTRIBUTE DEICING FLUID ONTO THE LEADING EDGE OF A SURFACE; Gerald L. Nichols, 244/134C [IMAGE AVAILABLE]

=> d 12 kwic 1-5

## SUMMARY:

BSUM(68)

In . . . interior separator element and at least one outer separator element whereby, in an especially preferred embodiment, there are provided as **separator** elements at least one inner **metal mesh** having a coarse mesh size and an outer metal mesh having a finer mesh size. The metal meshes can be. . . of a heat-resistant material; for example, such as stone wool, between the individual separator elements. Furthermore, the assembly of the **separator** can also be such that outside of the fine **metal mesh** there is provided a still further coarser metal mesh which serves for the mechanical stabilizing of the fine metal mesh.

## DETDESC:

DETD(22)

FIG. . . . spatially open region 29 between the separator 23, 33, 24 and the circumferential wall 32 of the container 2. The **separator** consists of an inner **metal mesh** 23 with a mesh size of 125 to 130 .mu.m and a wire thickness of 0.081 mm. The outer metal. . .

## DETDESC:

DETD(23)

FIG. 5 illustrates an embodiment of the separator which is similar to that shown in FIG. 4, whereby the **separator** consists of only a single **metal mesh** 23 having a mesh size of 0.130 mm. Also in this case there are provided spacer elements 30 for the. . .

## CLAIMS:

CLMS(13)

13. Gas-generator according to claim 12, characterized in that the **separator** elements comprise at least one inner **metal mesh** (23) having a mesh width of from 0.4 to 1 mm and at least one outer mesh (24) having a. . .

## SUMMARY:

BSUM(69)

In . . . interior separator element and at least one outer separator element whereby, in an especially preferred embodiment, there are provided as **separator** elements at least one inner **metal mesh** having a coarse mesh size and an outer metal mesh having a finer mesh size. The metal meshes can be-produced,. . . of a heat-resistant material; for example, such as stone wool, between the individual separator elements. Furthermore, the assembly of the **separator** can also be such that outside of the fine **metal mesh** there is provided a still further coarser metal mesh which serves for the mechanical stabilizing of the fine metal mesh.

DETDESC:

DETD(22)

FIG. . . . spatially open region 29 between the separator 23, 33, 24 and the circumferential wall 32 of the container 2. The **separator** consists of an inner **metal mesh** 23 with a mesh size of 125 to 130 .mu.m and a wire thickness of 0.081 mm. The outer metal. . .

DETDESC:

DETD(23)

FIG. 5. illustrates an embodiment of the separator which is similar to that shown in FIG. 4, whereby the **separator** consists of only a single **metal mesh** 23 having a mesh size of 0.130 mm. Also in this case there are provided spacer elements 30 for the. . .

US PAT NO: 5,562,303 [IMAGE AVAILABLE]

L2: 3 of 14

SUMMARY:

BSUM(69)

In . . . interior separator element and at least one outer separator element whereby, in an especially preferred embodiment, there are provided as **separator** elements at least one inner **metal mesh** having a coarse mesh size and an outer metal mesh having a finer mesh size. The metal meshes can be. . . of a heat-resistant material; for example, such as stone wool, between the individual separator elements. Furthermore, the assembly of the **separator** can also be such that outside of the fine **metal mesh** there is provided a still further coarser metal mesh which serves for the mechanical stabilizing of the fine metal mesh.

DETDESC:

DETD(22)

FIG. . . . spatially open region 29 between the separator 23, 33, 24 and the circumferential wall 32 of the container 2. The **separator** consists of an inner **metal mesh** 23 with a mesh size of 125 to 130 .mu.m and a wire thickness of 0.081 mm. The outer metal. . .

DETDESC:

DETD(23)

FIG. 5 illustrates an embodiment of the separator which is similar to that shown in FIG. 4, whereby the **separator** consists of only a single **metal mesh** 23 having a mesh size of 0.130 mm. Also in this case there are provided spacer elements 30 for the. . .

US PAT NO: 5,532,087 [IMAGE AVAILABLE]

L2: 4 of 14

DETDESC:

DETD(8)

In . . . also compared with results for electrochemical cell configurations according to the prior art. In both cases, cells fabricated with a **metal mesh** current collector disposed between the zinc electrode and the **separator** exhibited substantially longer cycle life than with conventional cell configuration.

US PAT NO: 5,527,405 [IMAGE AVAILABLE]

L2: 5 of 14

SUMMARY:

BSUM(69)

In . . . interior separator element and at least one outer separator element whereby, in an especially preferred embodiment, there are provided as **separator** elements at least one inner **metal mesh** having a coarse mesh size and an outer metal mesh having a finer mesh size. The metal meshes can be. . . of a heat-resistant material; for example, such as stone wool, between the individual separator elements. Furthermore, the assembly of the **separator** can also be such that outside of the fine **metal mesh** there is provided a still further coarser metal mesh which serves for the mechanical stabilizing of the fine metal mesh.

DETDESC:

DETD(22)

FIG. . . . spatially open region 29 between the separator 23, 33, 24 and the circumferential wall 32 of the container 2. The **separator** consists of an inner **metal mesh** 23 with a mesh size of 125 to 130 .mu.m and a wire thickness of 0.081 mm. The outer metal. . .

DETDESC:

DETD(23)

FIG. 5 illustrates an embodiment of the separator which is similar to that shown in FIG. 4, whereby the **separator** consists of only a single **metal mesh** 23 having a mesh size of 0.130 mm. Also in this case there are provided spacer elements 30 for the. . .

=> d 12 kwic 6-10

US PAT NO: 5,130,100 [IMAGE AVAILABLE]

L2: 6 of 14

CLAIMS:

CLMS (6)

6. . . . central honeycomb core section of a smaller diameter and an outer honeycomb core section of a larger diameter and a **separator** selected from the group consisting of steel wool, a **metal mesh**, a perforated metal sheet and an expanded metal net, which is interposed between an outer peripheral wall of the central. . .

US PAT NO: 4,769,593 [IMAGE AVAILABLE]

L2: 7 of 14

DETDESC:

DETD(3)

As . . . remaining test apparatus, separator 14 was necessary to eliminate any condensate from the steam. This separator is a conventional gas/liquid **separator** employing internal baffles and a **metal mesh** mist extractor at the gas outlet. Flow line 16 received 100% quality (dry) steam so that the percent liquid added. . . .

US PAT NO: 4,567,121 [IMAGE AVAILABLE]

L2: 8 of 14

DETDESC:

DETD(4)

The . . . cells, the electrochemical components may comprise a lithium foil anode and an MnO<sub>2</sub> /graphite cathode which are preferably supported on **metal mesh** current collectors. A microporous polypropylene **separator** envelopes the lithium foil and the assembly of the two electrodes is wound into a spiral and is inserted into. . . .

US PAT NO: 4,396,688 [IMAGE AVAILABLE]

L2: 9 of 14

SUMMARY:

BSUM(27)

It . . . reservoir displaced axially beyond one end of the electrolyte tube and to provide, between the reservoir and the sodium annulus, **separator** means comprising a filter of compressed **metal mesh** or restrictor plate as previously described. Such mesh filters are known in themselves and are formed of a very loose. . . .

SUMMARY:

BSUM(28)

Such . . . wherein there is provided a separator means extending across the housing to retain the filler in the annular region, the **separator** means comprising a perforated plate or a filter of compressed **metal mesh**. Preferably the mesh is formed of steel or aluminium wire. A separator plate would be welded in place but a. . . .

DETDESC:

DETD(5)

The **metal mesh separator** is resilient and bears against the inside surface of the housing. It need not therefore be sealed to the housing. . . . against upward movement. Downward movement is prevented by a C-spring 22 forming a clip sprung into the housing after the **separator** has been inserted. Instead of a **metal mesh**, a restrictor plate may be used, e.g. a metal plate with a few small holes at the periphery to permit. . . .

CLAIMS:

CLMS(9)

9. A cell as claimed in claim 2 wherein a separator is provided between

the annulus and the sodium reservoir, said **separator** comprising a filter of compressed **metal mesh**.

CLAIMS:

CLMS(12)

12. . . . said annular region and separator means extending across the housing to retain the zircon sand in the annular region, the **separator** means comprising a filter of compressed **metal mesh**.

US PAT NO: 4,209,394 [IMAGE AVAILABLE]

L2: 10 of 14

CLAIMS:

CLMS(7)

7. A magnetic **separator** in accordance with claim 1, wherein the layers comprise expanded **metal mesh** sheets.

=> d 12 kwic 11-14

US PAT NO: 4,176,023 [IMAGE AVAILABLE]

L2: 11 of 14

DETDESC:

DETD(11)

The . . . 52. Prior to entering a compressor 54, the chlorine is passed through a separator 56 to remove any impurities. The **separator**, a closed vessel, has a mist extractor that includes a **metal mesh** screen 58 as best seen in FIG. 3. The gaseous chlorine passes through the screen and any water and liquid. . . .

US PAT NO: 4,020,240 [IMAGE AVAILABLE]

L2: 12 of 14

DETDESC:

DETD(30)

The . . . neoprene and helically wound electrode stack 5. The electrode stack 5 consists of cathode collector sheet 8 of nickel expanded **metal mesh** and lithium ribbon 9 separated from each other by **separator** mats 7. The electrode stack is convolutely wound. The dimensions are selected so that the wound stack assembly 5 has. . . .

US PAT NO: 3,965,005 [IMAGE AVAILABLE]

L2: 13 of 14

DETDESC:

DETD(14)

The . . . wire mesh pad coated with a plastic that is inert to the solution processed in the unit, or an uncoated **metal mesh** pad. Mesh **separator** pad 56 is highly porous and presents torturous paths for the vapor-liquid stream to flow through. Mesh entrainment separator pads. . . .

US PAT NO: 3,614,038 [IMAGE AVAILABLE]

L2: 14 of 14

DETDESC:

DETD(8)

After . . . the membrane 13 have been bonded together, they are laid on the upper surface of another platen 20. The coarse **metal mesh** **separator** member 14 is laid over the membrane 13 and the inner plate 15 is laid over the separator member 14.. . .

=> s separator#(10a)metal foam

76398 SEPARATOR#  
770526 METAL  
97972 FOAM  
292 METAL FOAM  
(METAL (W) FOAM)  
L3 1 SEPARATOR#(10A)METAL FOAM

=> d 13 1

1. 5,542,402, Aug. 6, 1996, Positive crankcase ventilation system with a centrifugal oil separator; George C. Lee, et al., 123/573 [IMAGE AVAILABLE]

=> d 13 1 kwic

US PAT NO: 5,542,402 [IMAGE AVAILABLE]

L3: 1 of 1

DETDESC:

DETD(14)

A . . . embodiment is essentially the same as the second embodiment, except that a space is provided for the insertion of a **metal foam** ring 74. It is located in the oil **separator** assembly 36 between the centrifugal blades and the turbo fan blades to give more efficiency in separating the oil from. . .

CLAIMS:

CLMS(3)

3. The centrifugal oil **separator** of claim 2 further including a **metal foam** ring, wherein the rotatable member includes a cavity located between the centrifugal and the booster fan blades that receives the. . .

CLAIMS:

CLMS(4)

4. The centrifugal oil **separator** of claim 1 further including a **metal foam** ring, wherein the rotatable member includes a cavity located between the centrifugal and the booster fan blades that receives the. . .

=> s separator#(10a)polymer foam

76398 SEPARATOR#  
215465 POLYMER  
97972 FOAM  
1217 POLYMER FOAM  
(POLYMER (W) FOAM)  
L4 2 SEPARATOR# (10A) POLYMER FOAM

=> d 14 1-2

1. 4,828,006, May 9, 1989, Lost foam pour box and lost foam casting process; A. Dean Vander Jagt, 164/34, 61, 237, 255, 410 [IMAGE AVAILABLE]

~~A~~ 4,555,454, Nov. 26, 1985, Reinforced consumable electrode, electrochemical cell and method; Nicholas Shuster, 429/51, 67, 81, 212 [IMAGE AVAILABLE]

=> d 14 kwic 1-2

US PAT NO: 4,828,006 [IMAGE AVAILABLE]

L4: 1 of 2

CLAIMS:

CLMS (1)

What . . .  
extending upwardly from said bottom wall and being adapted to extend so as to support the at least one fluid/solid **separator** element in the vicinity of a **polymer foam** casting form when positioned within the container and defining a flow channel between the separator element and the exterior of. . .

US PAT NO: 4,555,454 [IMAGE AVAILABLE]

L4: 2 of 2

SUMMARY:

BSUM(9)

Some prior reactive metal cells have utilized rigid screens or open cell or reticulated **polymer foam** as inter-electrode **separators** in order to promote turbulence. However, the initial inter-electrode gap is generally fixed and, as the consumable metal electrode erodes,. . .

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